

## CLAIMS

1           1. Rotary sanding tool for moldings fabricated preferably from wood, having a one-  
2   part or multi-part pad and having at least one peripheral row of abrasive-coated sanding  
3   segments that are slipped onto pad elements affixed to the pad, wherein a locking unit  
4   movable in the axial direction with which at least the sanding segments of one peripheral row  
5   can be mounted on the pad elements.

1           2. Rotary sanding tool according to Claim 1, wherein the locking unit is displaceable  
2   in the axial direction relative to the pad.

1           3. Rotary sanding tool according to Claims 1 or 2, wherein the locking unit has a  
2   locking cage and, in the lower lateral marginal regions of the sanding segments, which  
3   regions are averted from the abrasive coatings, profilings are provided in such a way that the  
4   sanding segments are positively connected to the locking cage in the locked position.

1           4. Rotary sanding tool according to Claim 3, wherein on each lateral margin region of  
2   a sanding segment there are at least two projections forming the profiling and that the locking  
3   cage has webs adjoining the lateral marginal regions, which webs are provided with snap-in  
4   holes into which the projections engage.

1           5. Rotary sanding tool according to Claim 1, wherein each locking unit has a retaining  
2   ring on which the locking cage is mounted and the retaining ring is coupled by a rotatable  
3   adjusting nut in such a way that the locking unit executes a linear movement by turning of the  
4   adjusting nuts.

1           6. Rotary sanding tool according to Claim 5, wherein the adjusting nut is screwed onto  
2   a threaded stud of the hub of the rotary sanding tool.

1           7. Rotary sanding tool according to Claim 1, wherein the pad elements are detachably  
2 connected to the pad by mechanical connectors, preferably by a screw in each case.

1           8. Rotary sanding tool according Claim 1, wherein the rotary sanding tool is fashioned  
2 as a double-segment sanding wheel and there is a retaining ring movable in the axial direction  
3 on each of the mutually averted sides of the double-segment sanding wheel.

1           9. Rotary sanding tool according to Claim 1, wherein each sanding segment is  
2 fashioned as a molded part fabricated from a plastic and each pad element is made of an  
3 elastic material, for example sponge rubber.

1           10. Rotary sanding tool according to Claim 1, wherein each rotary sanding tool has an  
2 internal hub extending over the width or approximately over the entire width of the rotary  
3 sanding tool and the hub is fashioned as a centering cone or equipped with a conical centering  
4 bushing.

1           11. Rotary sanding tool according to Claim 1, which is fashioned as a single-segment  
2 wheel, wherein the sanding segments are designed such that there is a minimum clearance to a  
3 support plate holding a workpiece to be machined